

ABSTRACT OF THE DISCLOSURE

A mobile communication terminal apparatus includes an antenna unit configured to select antenna radiation characteristics, and receives a first signal transmitted from transmitting station according to the selected antenna radiation characteristic, a transmitter which transmits a detection signal to other terminals, the designation signal generated from the first signal, for designating the antenna radiation characteristics, a first receiver which receives another designation signal from the other terminal apparatuses, a controller which controls the antenna unit to obtain the antenna radiation characteristics designated by the another designation signal, a second receiver which receives second signal that is transferred from the other terminal apparatuses and is obtained by the antenna radiation characteristics selected by the other terminal apparatuses, and a processor which processes the second signal and the detection signal in a diversity scheme.